

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An apparatus comprising:

a set of registers where each register has a corresponding to computed brightness value[[s]] to store data indicating a number of pixels of an image having respective computed brightness values, each register having an associated saturation threshold value; and

an image brightness agent communicatively coupled with the set of registers to determine whether a register is saturated and, for each register that is saturated to redistribute computed brightness values to a closest ~~one or more~~ non-saturated register[[s]] and if none of the registers is saturated to adjust image brightness and corresponding backlight intensity based on an ambient light level.

2. (Original) The apparatus of claim 1 further comprising a color look-up table coupled with the image brightness agent, the image brightness agent to modify the color look-up table based on computed brightness values stored in the registers.

3. (Original) The apparatus of claim 2 wherein the registers store brightness histogram values.

4. (Original) The apparatus of claim 2 further comprising a backlight control agent communicatively coupled with the image brightness agent, the backlight control agent to modify backlight brightness based on modifications to the color look-up table.

5. (Original) The apparatus of claim 1 wherein one or more of the saturation threshold values comprises a largest number to be stored by the associated register.

6. (Original) The apparatus of claim 1 wherein one or more of the saturation threshold values comprises number less than a largest number to be stored by the associated register.

7. (Original) The apparatus of claim 1 wherein the image brightness agent comprises a processor executing sequences of instructions.

8. (Original) The apparatus of claim 1 wherein the image brightness agent comprises control circuitry communicatively coupled with the set of registers.

9. (Canceled)

10. (Currently Amended) The apparatus of claim 1 ~~[[9]]~~ further comprising an ambient light sensor coupled with the image brightness agent to generate an indication of ambient light level.

11. (Currently Amended) The apparatus of claim 1 ~~[[9]]~~ wherein the image brightness agent modifies a color look-up table based on the indication of ambient light level.

12. (Currently Amended) The apparatus of claim 11 further comprising a backlight control agent communicatively coupled with the set of registers and the image brightness agent, ~~the backlight control agent~~ to control backlight intensity in response to modifications to the color look-up table.

13. (Currently Amended) A method comprising:
storing, in a plurality of registers, an indication of a number of pixels in an image having a computed brightness value corresponding to the respective registers; ~~[[and]]~~
redistributing a subset of computed brightness values corresponding to closest non-saturate ~~one or more~~ registers if the computed brightness value for the register exceeds a threshold value; and
adjusting image brightness and corresponding backlight intensity based on an ambient light level if none of the registers is saturated.

14. (Original) The method of claim 13 further comprising modifying a color look-up table based on values stored in the registers.

15. (Original) The method of claim 14 further comprising modifying a display device backlight intensity based on the modifications to the color look-up table.

16. (Original) The method of claim 13 wherein the computed brightness values correspond to brightness histogram values.

17. (Original) The method of claim 13 wherein the saturation threshold value comprises a largest number to be stored in a register.

18. (Original) The method of claim 13 wherein the saturation threshold value comprises a value less than a largest number to be stored in a register.

19. (Original) The method of claim 13 further comprising:
receiving ambient light information from an ambient light sensor and modifying a color look-up table based on the ambient light information; and
modifying a display device backlight intensity based on the modifications to the color look-up table.

20. (Currently Amended) An article comprising a machine-readable medium having stored thereon instruction that, when executed by one or more processors, cause the one or more processors to:

store, in a plurality of registers, an indication of a number of pixels in an image having a computed brightness value corresponding to the respective registers; ~~[[and]]~~
redistribute a subset of computed brightness values corresponding to closest non-saturate ~~one or more~~ registers if the computed brightness value for the register exceeds a threshold value; and
adjust image brightness and corresponding backlight intensity based on an ambient light level if none of the registers is saturated.

21. (Original) The article of claim 20 further comprising instructions that, when executed, cause the one or more processors to modify a color look-up table based on values stored in the registers.

22. (Original) The article of claim 21 further comprising instructions that, when executed, cause the one or more processors to modify a display device backlight intensity based on the modifications to the color look-up table.

23. (Original) The article of claim 20 wherein the computed brightness values correspond to brightness histogram values.

24. (Original) The article of claim 20 wherein the saturation threshold value comprises a largest number to be stored in a register.

25. (Original) The article of claim 20 wherein the saturation threshold value comprises a value less than a largest number to be stored in a register.

26. (Original) The article of claim 20 further comprising instructions that, when executed, cause the one or more processors to:

receive ambient light information from an ambient light sensor and modifying a color look-up table based on the ambient light information; and

modify a display device backlight intensity based on the modifications to the color look-up table.

27-54. (Canceled)